

METHOD AND APPARATUS FOR TRANSLATING DATA PACKETS FROM ONE NETWORK PROTOCOL TO ANOTHER

Abstract

A method for translating data packets from one network protocol to another is disclosed. A set of translation templates is constructed. The translation templates are then loaded into a translation template cache. In response to a data packet from a first network arriving at a translation router, an appropriate translation template is selected from the set of translation templates within the translation template cache according to the translation context of the data packet. Next, a new header for transmission into a second network is constructed by reading header fields of the data packet from the first network along with the appropriate translation template in the translation template cache. The data payload of the data packet from the first network is subsequently removed from the header of the data packet and then appended to the constructed header of the second network. Finally, the newly constructed data packet is transmitted to the second network.